



M487KIDAE Information



For Reference Only

Part Number M487KIDAE

Manufacturer Nuvoton Technology Corporation of America

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

Description MICROCONTROLLER ARM CORTEX

Package 128-LQFP

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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M487KIDAE Specifications

Manufacturer Part Number M487KIDAE Manufacturer Nuvoton Technology Corporation of America Category Integrated Circuits (ICs) Package 128-LQFP Series NuMicro™ M480 Core Processor ARM® Cortex®-M4F Core Size 32-Bit Speed 192MHz Connectivity CANbus, EBI/EMI, Ethernet, I°C, LINbus, SCI, SmartCard, SPI, USB Peripherals Brown-out Detect/Reset, DMA, I°S, LCD, LVR, POR, PWM, WDT Number of I/O 100 Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)			
Category Integrated Circuits (ICs) Embedded - Microcontrollers Package 128-LQFP Scries NuMicro™ M480 Core Processor ARM® Cortex®-M4F Core Size 32-Bit Speed 192MHz Connectivity CANbus, EBI/EMI, Ethernet, I²C, LINbus, SCI, SmartCard, SPI, USB Peripherals Brown-out Detect/Reset, DMA, I²S, LCD, LVR, POR, PWM, WDT Number of I/O 100 Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Manufacturer Part Number	M487KIDAE	
Package 128 -LQFPSeriesNuMicro™ M480Core ProcessorARM® Cortex®-M4FCore Size 32 -BitSpeed 192 MHzConnectivityCANbus, EBI/EMI, Ethernet, PC, LINbus, SCI, SmartCard, SPI, USBPeripheralsBrown-out Detect/Reset, DMA, P2S, LCD, LVR, POR, PWM, WDTNumber of I/O 100 Program Memory Size 512 KB $(512$ K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size 160 K x 8Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 VData Converters A/D $16x12b$; D/A $2x12b$ Oscillator TypeInternal/ExternalOperating Temperature -40 °C ~ 105 °C (TA)Mounting TypeSurface MountPackage / Case 128 -LQFPSupplier Device Package 128 -LQFP $(14x14)$	Manufacturer	Nuvoton Technology Corporation of America	
Package 128-LQFP SeriesNuMicro™ M480Core ProcessorARM® Cortex®-M4FCore Size 32-Bit Speed 192MHz ConnectivityCANbus, EBI/EMI, Ethernet, PC, LINbus, SCI, SmartCard, SPI, USBPeripheralsBrown-out Detect/Reset, DMA, PS, LCD, LVR, POR, PWM, WDTNumber of I/O 100 Program Memory Size 512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) $1.8\text{V} \sim 3.6\text{V}$ Data Converters A/D $16x12b$; D/A $2x12b$ Oscillator TypeInternal/ExternalOperating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (TA)Mounting TypeSurface MountPackage / Case 128-LQFP Supplier Device Package 128-LQFP ($14x14$)	Category	Integrated Circuits (ICs)	
SeriesNuMicroTM M480Core Processor $ARM \otimes Cortex \otimes -M4F$ Core Size 32 -BitSpeed $192MHz$ Connectivity $CANbus$, EBI/EMI , $Ethernet$, PC , $LINbus$, SCI , $SmartCard$, SPI , USB Peripherals $Brown-out Detect/Reset$, DMA , PS , LCD , LVR , POR , PWM , WDT Number of I/O 100 Program Memory Size $512KB$ ($512K \times 8$)Program Memory Type $FLASH$ $EEPROM Size$ - $RAM Size$ $160K \times 8$ Voltage - Supply (Vcc/Vdd) $1.8V \sim 3.6V$ Data Converters $A/D 16x12b$; $D/A 2x12b$ Oscillator TypeInternal/ExternalOperating Temperature $-40^{\circ}C \sim 105^{\circ}C$ (TA)Mounting TypeSurface MountPackage / Case 128 -LQFPSupplier Device Package 128 -LQFP ($14x14$)		Embedded - Microcontrollers	
Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed192MHzConnectivityCANbus, EBI/EMI, Ethernet, I°C, LINbus, SCI, SmartCard, SPI, USBPeripheralsBrown-out Detect/Reset, DMA, I°S, LCD, LVR, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.8V ~ 3.6VData ConvertersA/D 16x12b; D/A 2x12bOscillator TypeInternal/ExternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case128-LQFPSupplier Device Package128-LQFP (14x14)	Package	128-LQFP	
Core Size 32-Bit Speed 192MHz Connectivity CANbus, EBI/EMI, Ethernet, I*C, LINbus, SCI, SmartCard, SPI, USB Peripherals Brown-out Detect/Reset, DMA, I*S, LCD, LVR, POR, PWM, WDT Number of I/O 100 Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Series	NuMicro™ M480	
Speed192MHzConnectivityCANbus, EBI/EMI, Ethernet, IPC, LINbus, SCI, SmartCard, SPI, USBPeripheralsBrown-out Detect/Reset, DMA, IPS, LCD, LVR, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.8V ~ 3.6VData ConvertersA/D 16x12b; D/A 2x12bOscillator TypeInternal/ExternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case128-LQFPSupplier Device Package128-LQFP (14x14)	Core Processor	ARM® Cortex®-M4F	
Connectivity CANbus, EBI/EMI, Ethernet, I²C, LINbus, SCI, SmartCard, SPI, USB Peripherals Brown-out Detect/Reset, DMA, I²S, LCD, LVR, POR, PWM, WDT Number of I/O 100 Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Core Size	32-Bit	
Peripherals Brown-out Detect/Reset, DMA, PS, LCD, LVR, POR, PWM, WDT 100 Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Speed	192MHz	
Number of I/O Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Connectivity	CANbus, EBI/EMI, Ethernet, I2C, LINbus, SCI, SmartCard, SPI, USB	
Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Peripherals	Brown-out Detect/Reset, DMA, I2S, LCD, LVR, POR, PWM, WDT	
Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Number of I/O	100	
EEPROM Size RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Program Memory Size	512KB (512K x 8)	
RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.8V ~ 3.6V Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.8V ~ 3.6VData ConvertersA/D 16x12b; D/A 2x12bOscillator TypeInternal/ExternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case128-LQFPSupplier Device Package128-LQFP (14x14)	EEPROM Size	-	
Data Converters A/D 16x12b; D/A 2x12b Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	RAM Size	160K x 8	
Oscillator Type Internal/External Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	
Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Data Converters	A/D 16x12b; D/A 2x12b	
Mounting Type Surface Mount Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Oscillator Type	Internal/External	
Package / Case 128-LQFP Supplier Device Package 128-LQFP (14x14)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package 128-LQFP (14x14)	Mounting Type	Surface Mount	
	Package / Case	128-LQFP	
Report errors?	Supplier Device Package	128-LQFP (14x14)	
			Report errors?

M487KIDAE Guarantees



Quality Guarantees

We provide 90 days warranty. *

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



Service Guarantees

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

M487KIDAE Payment Methods



















M487KIDAE Shipping Methods













If you have any question about M487KIDAE, please do not hesitate to contact us!

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